

## Integrative Cancer Research Special Interest Group Teleconference

### Data Analysis SIG Meeting Minutes

<b>Date, Time &amp; Location:</b>	June 4, 2004 2:00 – 3:00 EDT
<b>Attendees:</b>	<p>Craig Street – Penn  James Lyons-Weiler – Pittsburg  Robert Clarke – Georgetown  Joseph Wang – Georgetwon  Antai Wong – Georgetown  Judith Goldberg – New York  David Kane – NCI/SRA  James Kepner – Roswell Park Cancer Institute  William Greco - Roswell Park Cancer Institute  Jihnhee Yu - Roswell Park Cancer Institute  Deborah Driscoll - Roswell Park Cancer Institute  Simon Lin – Duke  Patrick McConnell – Duke  Steve Marron – Lineberger  Ann Oberg – Mayo  Susan Geyer - Mayo  Richard Rauscher – Prentis-Karmanos  Edith Zang – Institute for Cancer Prevention  Naveen Vinukonda - Institute for Cancer Prevention  Moe Tika - Institute for Cancer Prevention  Brian Pittman – Institute for Cancer Prevention  Emily Chung - Institute for Cancer Prevention  Lianhong Tang - Vanderbilt  Pablo Tamayo – MIT/Broad Institute  Claire Zhu – BAH  Juli Klemm - BAH</p>
<b>Introduction:</b>	<p><b><u>Roll-call, open meeting, review meeting goals</u></b></p> <ul style="list-style-type: none"> <li>- Introduction of new member: MIT/Broad Institute</li> <li>- Review of last meeting</li> <li>- Review mission statement</li> <li>- Review Developer/Adopter activities</li> </ul>
<b>Review Discussions:</b>	<p><b><u>Review discussion of last meeting</u></b></p> <ul style="list-style-type: none"> <li>- The group discussed challenges that are faced by experimentalists when analyzing their functional genomics data, the limitations of training in statistical data analysis and the scarcity of biostatisticians to collaborate with.</li> <li>- The group identified training and documentation as important issues not only within this SIG, but also across the board in caBIG.</li> <li>- A position paper is being put together to outline some the major challenges and issues and to suggest recommendations that will guide future activities. Louise Showe of Wistar is taking a lead on this and James Lyons-Weiler volunteered to collaborate. It is expected that the white paper will capture some of the issues identified from the SIG meetings.</li> </ul>



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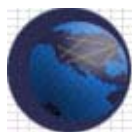
### Review of Mission Statement

- The purpose of the mission statement is to identify needs and opportunities and to facilitate communications within and outside the caBIG community.
- Group review of the mission statement.
  - o Identify key categories of end users in the Opportunities/Needs section (Patrick McConnell).
  - o The descriptions of user communities in the mission statement were not sufficient, as biostatisticians belong to both categories (Judy Goldberg).
  - o A third community could be included that represents professional and commercial software vendors, the idea being that commercial vendors produce high-quality, validated tools that are of great use to the community (Jim Kepner).
    - The group discussed the issues around commercial vendors' involvement in caBIG. David Kane reminded the group that at the kickoff meeting, it was conveyed that ultimate goal of caBIG is interoperability and sharing and that the open source requirements are for caBIG-funded development. It was agreed that commercial involvement should be explored further within this SIG.
  - o The end-user communities are very diverse, and resources that tailor towards specific groups of users can be very useful. It may be useful for the group to create a compendium of data analysis resources that are organized by data types (Craig Street)
  - o This SIG may also focus on methodologies that combine a set of tools to form a chain of methods that can be reproduced and distributed (Pablo Tomayo, MIT/Broad)

### Review of Developer/Adopter activities

Juli has been contacting centers individually and discussing resources and timelines with each center as part of the matchmaking process. The following updates represent the current thinking and may evolve in the future.

- Dartmouth will adapt Q5 to the caBIG architecture. Interested adopters are The Institute for Cancer Prevention and New York.
- Georgetown will adapt VISDA to the caBIG. Wistar is the likely adopter for this tool.
- UC San Francisco will adapt Magellan to the caBIG architecture. Penn will be the adopter for this tool.
- Lineberger will adapt DWD to the caBIG architecture. Wistar is the likely adopter for this tool.
- Fox Chase will adapt FGDP to the caBIG architecture. The Institute for Cancer Prevention will be the adopter for this tool.
- Duke will develop JavaR for caBIG. Oregon Health will be the adopter for this project.
- Duke will develop RProteomics for caBIG. Oregon Health and Penn are interested adopters.
- caGEDA from Pittsburg is an unfunded development effort - publication about this



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tool has just been released. The Institute for Cancer Prevention will adopt this tool as an unfunded effort.

### Overview of Gene Pattern

- The group was given an introduction to the Gene Pattern Tool from MIT/Broad (Pablo Tomayo). GenePattern is an analysis platform that supports the integration of analysis tools from disparate sources. It enables the user to add new tools but requires minimum software engineering. GenePattern can be downloaded at: <http://www.broad.mit.edu/cancer/software/genepattern/>

### Future Activities

#### Current projects

- The group agreed to use upcoming meetings for presentations/demos of the tools within this SIG.
  - o ~ 20 min presentation/demo on each tool, followed by ~ 10 min discussions.
  - o Can be PowerPoint format or live demo through Centra.
  - o For next meeting, which is on July 2nd, Jim Lyons-Weiler and Steve Marron will present caGEDA and DWD, respectively. Juli will follow up on format and resources.

In the future, this meeting will be used to update on ongoing projects, and to resolve issues and problems.

### Other Items Discussed

- A question was raised regarding how data types would be normalized across applications (Steve Enkemann). Juli noted that there is a presentation of Common Data Elements at the upcoming ICR WS/WG meeting where this type of issue will be addressed.
- There was a discussion on what should be the focus of ICR efforts - selecting the best tool or validating tools? It was agreed that the focus should be on validating tools. A compendium of literature focused on tool comparison would be a useful resource for this group.
  - o Naveen provided the following link to microarray data analysis literature: <http://www.nslj-genetics.org/microarray/>
  - o Jim Lyons-Weiler provided a link to the compendium of analysis tools he has created: <http://bioinformatics.upmc.edu/Help/MicroarrayReferences.html>
- Time for next meeting (July 2nd) will be changed to 12:00 PM EDT, due to the July 4<sup>th</sup> holiday weekend

### Action Items:

Name Responsible	Action Item	Date Due	Notes
Juli Klemm	Distribute meeting minutes	6/11/04	
Jim Lyons-Weiler and Steve Marron	Present caGEDA and DWD at next month's meeting	7/2/04	
Juli Klemm	Follow up with James and Steve on presentations/demo	6/21/04	
Juli Klemm	Follow up with Louise Show and Jim Lyons-Weiler re: SIG whitepaper	6/14/04	



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	Juli Klemm	Update and redistribute mission statement	6/11/04	
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